WEST

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L1: Entry 1 of 3 File: DWPI May 29, 2001

DERWENT-ACC-NO: 1996-259815
DERWENT-WEEK: 200134

TITLE: Laminate based on renewable resources for opt. cushioned floor covering - has clear top layer and opt. compact and/or foam layers contg. epoxidised ester of unsatd. fatty acid with aliphatic poly:ol and unsatd. partial ester

INVENTOR: BAUMGARTNER, S; EDINGER, S ; KASTL, B ; MAURER, F ; SCHULZ, D ; MAUER, F

PRIORITY-DATA: 1995DE-1042274 (November 13, 1995), 1994DE-4440860 (November 15, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2204609 C	May 29, 2001	E	000	B32B005/18
WO 9615203 A1	May 23, 1996	G	026	C09D163/00
DE 19542274 A1	July 25, 1996		008	B32B027/06
AU 9641722 A	June 6, 1996		000	C09D163/00
DE 19542274 C2	June 19, 1997		007	B32B027/06
FI 9702082 A	May 15, 1997		000	C09D000/00
NO 9702076 A	July 11, 1997		000	B32B027/38
EP 792329 A1	September 3, 1997	G	000	C09D163/00
CZ 9701441 A3	November 12, 1997		000	C09D163/00
SK 9700590 A3	November 5, 1997		000	C09D163/00
HU 77898 T	September 28, 1998		000	C09D163/00
KR 97707249 A	December 1, 1997		000	C09D163/00
JP 10512819 W	December 8, 1998		035	B32B027/38
AU 705701 B	May 27, 1999		000	C09D163/00
US 5932337 A	August 3, 1999		000	B32B005/32
EP 792329 B1	March 1, 2000	G	000	C09D163/00
DE 59507924 G	April 6, 2000		000	C09D163/00
ES 2143665 T3	May 16, 2000		000	C09D163/00
RU 2151065 C1	June 20, 2000		000	B32B027/38

DE 59507924 G INT-CL (IPC): B05 D 1/36; B32 B 5/18; B32 B 5/32; B32 B 27/06; B32 B 27/20; B32 B 27/30; B32 B 27/36; B32 B 27/38; C09 D 0/00; C09 D 163/00; C09 D 167/06; D06 N 1/00; D06 N 7/02; E04 F 15/16

ABSTRACTED-PUB-NO: EP 792329B
BASIC-ABSTRACT:

Laminate has at least a substrate layer (I) and a transparent top layer (II), opt. a layer (III) of chemically or mechanically foamed foam on the back of (I) and opt. a compact layer (IV) between (I) and (II) and/or (I) and (III). The coating compsns. for layers (II), (III) and (IV) comprise (a) an epoxidation prod. of esters of 8-22 C unsatd. fatty acids with 2-6C aliphatic polyols contg. an average of more that 1 epoxide gp./mol.; (b) partial esters of poly-carboxylic acids with polyether-polyols contg. at least 2 free COOH g./mol. and 1 double bond; (c) opt. a hydrophobising agent; and (d) opt. filler, pigment, blowing agent and ancillaries. The (a):(b) wt. ratio is 0.6:1 to 1:1.4.

USE - The laminate is a floor covering or tile (claimed).

ADVANTAGE - The laminate is free from plasticiser and is based on renewable resources. It can be made to resemble cushion vinyl without using PVC. A noise-deadening effect is obtd. by using a thick foam layer.
ABSTRACTED-PUB-NO:

US 5932337A EQUIVALENT-ABSTRACTS:

Laminate has at least a substrate layer (I) and a transparent top layer (II), opt. a layer (III) of chemically or mechanically foamed foam on the back of (I) and opt. a compact layer (IV) between (I) and (II) and/or (I) and (III). The coating compsns. for layers (II), (III) and (IV) comprise (a) an epoxidation prod. of esters of 8-22 C unsatd. fatty acids with 2-6C aliphatic polyols contg. an average of more that 1 epoxide gp./mol.; (b) partial esters of poly-carboxylic acids with polyether-polyols contg. at least 2 free COOH g./mol. and 1 double bond; (c) opt. a hydrophobising agent; and (d) opt. filler, pigment, blowing agent and ancillaries. The (a):(b) wt. ratio is 0.6:1 to 1:1.4.

USE - The laminate is a floor covering or tile (claimed).

ADVANTAGE - The laminate is free from plasticiser and is based on renewable resources. It can be made to resemble cushion vinyl without using PVC. A noise-deadening effect is obtd. by using a thick foam layer.

Laminate has at least a substrate layer (I) and a transparent top layer (II), opt. a layer (III) of chemically or mechanically foamed foam on the back of (I) and opt. a compact layer (IV) between (I) and (II) and/or (I) and (III). The coating compsns. for layers (II), (III) and (IV) comprise (a) an epoxidation prod. of esters of 8-22 C unsatd. fatty acids with 2-6C aliphatic polyols contg. an average of more that 1 epoxide gp./mol.; (b) partial esters of poly-carboxylic acids with polyether-polyols contg. at least 2 free COOH g./mol. and 1 double bond; (c) opt. a hydrophobising agent; and (d) opt. filler, pigment, blowing agent and ancillaries. The (a):(b) wt. ratio is 0.6:1 to 1:1.4.

USE - The laminate is a floor covering or tile (claimed).

ADVANTAGE - The laminate is free from plasticiser and is based on renewable resources. It can be made to resemble cushion vinyl without using PVC. A noise-deadening effect is obtd. by using a thick foam layer.

WO 9615203A

WEST

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L1: Entry 2 of 3 File: DWPI May 5, 1993

DERWENT-ACC-NO: 1993-145300
DERWENT-WEEK: 199725

TITLE: Coating materials based on renewable raw materials - contain epoxidised ester(s) of unsatd. fatty acids, partial ester(s) of unsatd. poly:carboxyl ic acids and polyglycol(s), and waterproofing agents

INVENTOR: BALBACH, G; DOECKER, H ; JUNG, K ; JUNG, K H

PRIORITY-DATA: 1991DE-4135664 (October 29, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 539916 A1	May 5, 1993	G	006	C08G059/42
DE 59208320 G	May 15, 1997		000	C08G059/42
DE 4135664 A1	May 6, 1993		005	C09D191/00
DE 4135664 C2	October 26, 1995		005	C09D191/00
EP 539916 B1	April 9, 1997	G	009	C08G059/42

INT-CL (IPC): C08 G 59/42; C09 D 7/12; C09 D 163/00; C09 D 167/00; C09 D 191/00; C09 D 191/06; D06 N 3/16

ABSTRACTED-PUB-NO: DE 4135664C
BASIC-ABSTRACT:

Coating materials (I) are claimed, contg. (a) epoxidised esters of 8-22C unsatd. fatty acids with 2-6C polyhydric alcohols, contg. more than 1 epoxide gp./mol., (b) partial esters of polycarboxylic acids (b1) and polyglycols (b2), contg. at least 2 free COOH gps./mol. with a double bond in the alpha,beta-position to the free COOH, and (c) a waterproofing agent. Mol. ratio (a):(b) = (0.8:1)-(1.2:1), and the coating contains 2-14 wt. % (c).

Specifically (a) is an epoxidised natural unsatd. fat or oil, pref. contg. more than 1.5 epoxide gps./mol. (on average). (b2) are poly-ethylene, -propylene, -tetramethylene or -butylene glyols of formula HO(CH2CH2O)nH, HO(CHMeCH2O)nOH, HO(CH2CH2CH2CH2O)nH and HO(CHEtCH2O)nH (with n = 2-10), or mixts. thereof, and (b1) is maleic or phthalic acid. (c) are stearates of 2-, 3- or 4-valent metals, PE wax, Fischer-Tropsch hard paraffin, or animal, vegetable or mineral wax, in amts. of 4-10 wt. %, or siliconised silicic acid in amts. of 6-12 wt. %. (w.r.t. a+b+c). (I) also contain fillers, pigments etc.

USE/ADVANTAGE - (I) are useful for coating textile sheets (claimed). The method provides a coating material, esp. for producing linoleum and other textile-based flooring material, which is obtd. by a simple process from cheap, renewable raw materials and meets all the relevant requirements (high viscosity at room temp., max. setting time 5 mins. at up to 200 deg. , to give a strong, non-sticky coating with good elasticity, wear resistance and hydrolytic stability, etc.
ABSTRACTED-PUB-NO:

EP 539916A EQUIVALENT-ABSTRACTS:

Coating compsn comprises an epoxidation prodn (about 1 mol) of one or more esters of unsatd 8-22C fatty acids and 2-6C aliphatic polyols, contg on average more than one epoxide gp per molecule; one or more partial esters (about 1 mol) of alk-2-ene-polycarboxylic acids having at least two free COOH gps and polyether polyols derived from polyols of formula HO(CHR-CH2O)nOH and/or HO((CH2)4O)nOH, where R is H, Me or Et and n is 2-10; a hydrophobic additive (2-14 wt%), pref a metallic stearate, silicone oil, polyethylene wax, hard paraffin, animal or vegetable wax, PTFE or siliconised silica; and opt fillers pigments, etc.

USE/ADVANTAGE - The prods are surface coating agents for textiles. The coatings exhibit elasticity, abrasion resistance and hydrolytic stability.

EP 539916B

Coating composition containing a combination of a) epoxidation products of esters of unsaturated fatty acids of chain length C8 to C22 with polyvalent aliphatic alcohols which contain 2-6 C atoms and which include on average more than one epoxide group per molecule and b) partial esters of polycarbonic acids with polyglycols which include at least two free carbonic acid groups per molecule and a double bond with the free carbonic acid groups in the alpha,beta position, c) a hydrophobic agent, the components in accordance with a) and b) being used in a molar ratio of 0.1:1 to 1.2:1 and the addition of hydrophobic agents being 2 to 14 weight percent of the coating.